GX-15/15R AMPLIFIER

OWNER'S MANUAL

Congratulations!

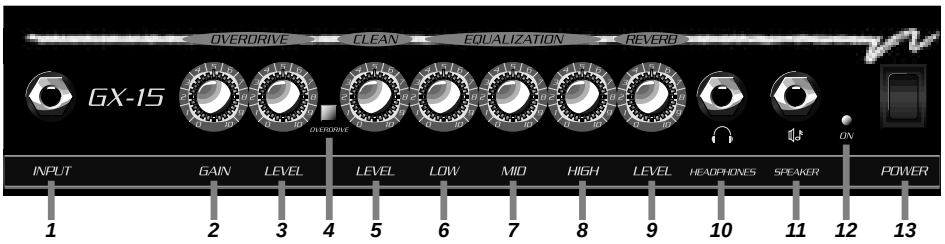
You are now the proud owner of the compact but powerful Crate GX-15/15R amplifier. Two versatile channels – one crystal clear and the other with our patented "Flex-Wave" distortion – combined with reverb (GX-15R) and a three-band EQ offer you more flexibility and performance than any amp in its class. A special damping circuit simulates the "current source" type of output of a tube amp, giving you solid state reliability combined with classic tube sounds.

Like all Crate products, your GX-15/15R is designed by musicians, and built using only the best components. Extensive testing insures you that this amplifier is the absolute best it can be.

In order to get the most out of your new amplifier, we strongly urge you to go over the information contained in this manual before you begin playing.

And ***thank you*** for choosing CRATE®

GX-15/15R Amplifier



1: INPUT: Connect your guitar here using a shielded instrument cable.

OVERDRIVE CHANNEL: *A high gain channel giving you sounds from a slight edge to serious overdrive.*

2: GAIN: This control sets the amount of compression and distortion from the amplifier. With the control towards far left, the sound will have a thick compressed quality. As you turn the control to the right the amount of distortion increases. Crate's exclusive "Flex Wave" circuitry uses sequential cascading gains to deliver distortion which is rich in harmonics and "touch sensitive." Use this control along with the Level (#3) to create a wide variety of sounds.

3: LEVEL: This control sets the output volume level from the Overdrive channel: in the far-left position there will be no output; as you turn the control to the right the output increases. Use this control along with the Gain control (#2) to create a wide variety of sounds.

4: OVERDRIVE SELECT: When this pushbutton switch is pressed in the Overdrive channel is engaged. The clean channel is selected when this switch is out.

CLEAN CHANNEL: *A normal gain channel designed to give you crystal clear sounds to medium distortion.*

5: LEVEL: This control sets the output volume level from the Clean channel: in the far-left position there will be no output; as you turn the control to the right the output level increases. The far right setting is maximum output - as you increase the level, roll back the Low control (#6).

EQUALIZATION

6: LOW: Adjust the low frequency output level with this control: turning the control to the left reduces the low frequency output; turning it to the right increases the low frequency output. The Low control allows a total range of 25dB of boost or cut at 80Hz. Due to the massive amount of low end available, you may want to "roll off" the bass at high volumes.

7: MID: Adjust the mid frequency output level with this control: the center position is "flat" (no boost or cut). Turning the control to the left reduces the midrange output; turning it to the right increases the midrange output. The Mid control allows for 19dB of boost or cut at 900Hz.

8: HIGH: Adjust the high frequency output level with this control: in the center position the high frequency output will be "flat" (no boost or cut). Turning the control to the left reduces the high frequency output; turning it to the right increases the high frequency output. The High control allows a total range of 23dB of boost or cut at 5kHz.

9: REVERB LEVEL: (GX-15R only) Adjust the amount of Reverb effect with this control: in its full-left position the signal will be "dry" (without any reverb). As you turn the control to the right the amount of reverberation increases.

10: HEADPHONES: For private practice sessions, plug a pair of stereo headphones into this jack. The internal speaker is disconnected whenever headphones are being used.

11: EXTERNAL SPEAKER: You may connect the GX-15/15R to an external speaker with a rated impedance of at least 4 ohms using this jack. The internal speaker is disconnected whenever an external speaker is used.

WARNING: DO NOT attempt to use headphones in the Speaker jack! Permanent hearing damage could result!

12: ON LED: This LED will glow when you turn on the GX-15/15R, showing you that the amplifier is activated and ready to play.

13: POWER: This heavy-duty rocker switch is used to turn the amplifier ON in the up position, off in the down position. The ON LED (#12) works with this switch as a visual indicator.

14: POWER CORD: (Rear panel, not shown: This heavy-duty, grounded, three-wire power cord is to be plugged into ONLY a safely-wired, grounded 120 volt, 60 cycle AC power outlet. DO NOT attempt to defeat the ground connection of this cable! If your GX-15/15R was purchased outside of the United States, see the unit's rear panel for its power rating and follow the above guidelines.

GX-15/15R Amplifier

GX-15/15R TECHNICAL SPECIFICATIONS:

Output Power Rating	12 watts RMS @ 5% THD 4 ohms, 120 VAC
Gain, Overdrive Channel	86 +/-6dB @ 1kHz
Gain, Clean Channel	46 +/-6dB @ 1kHz
Tone Control Range. Low	25dB @ 80Hz
Tone Control Range, Mid	19dB @ 900Hz
Tone Control Range, High	23dB @ 5kHz
Signal To Noise, Overdrive Channel	>50dB
Signal To Noise, Clean Channel	>65dB
Maximum Signal Accepted	2.2 volts RMS
Internal Speaker	8” Crate Custom Design 4 ohm
Power Requirements	120 VAC, 60Hz, 50 watts max.
Size and Weight	13” H x 13-5/8” W x 8-1/4” D, 15 lbs.

The GX-15/15R is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

El GX-15/15R esta cubierto con un material durable Tolex: limpielo con una toalla seca. Nunca rocie el gabinete con sustancias limpiadoras. Evite usar materiales abrasivos con los cuales pueda danar el acabado.

Le GX-15/15R est couvert avec «Tolex» un revêtement noir et durable. Essuyez cette matière avec une toile propre et sans charpie. Ne pulvérisez jamais les agents de nettoyage sur l'appareil. Evitez les nettoyeurs abrasifs qui peuvent endommager le «Tolex.»

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

PRECAUCION
RIESGO DE CORRIENTAZO
NO ABRA

PRECAUCION PARA DISMINUOIR EL RIESGO DE CORRIENTAZO
NO ABRA LA CUBIERTA
NO HAY PIEZAS ADENTRO QUE EL USARIO PUEDO REPARAR
DEJE TODO MANTENIMIENTO A LOS TECHNICOS CALIFICADOS

ATTENTION
RISQUE D'ELECTROCUTION
NE PAS OUVRIR

ATTENTION: POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPRABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.

VORSICHT
ELEKTRISCHE SCHLAGGEFAHR
NICHT OFFENEN

VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGGEFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KONNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM WARTUNGSPERSONAL ZU UBERLASSEN.

THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES:

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS; DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.

ESTE APARATO HA SIDO DISENADO Y CONSTRUIDO PARA PROVEER ANOS DE OPERACION SEGURA Y CONFIABLE. PARA PROLONGAR LA VIDA DE ESTA UNIDAD E IMPEDIR DANOS ACCIDENTALES POR FAVOR SIGA ESTAS INSTRUCCIONES PREVENTIVAS:

PRECAUCION: PARA DISMINUIR EL RIESGO DE DESCARGAS ELECTRICAS: (1) NO ABRA LA CUBIERTA, (2) NO ES RECOMENDABLE REMOVER O DESACTIVAR LA PATA DEL POLO A TIERRA DEL CABLE DE CORRIENTE, CONECTE CORRECTAMENTE A UNA TOMA DE CORRIENTE A TIERRA.

ADVERTENCIA: PARA EVITAR DESCARGAS EL ECTRICAS O PELIGRO DE INCENDIO, NO DEJE ESTE APARATO EXPUESTO A LA LLUVIA O HUMEDAD.

PRECAUCION: NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDE REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS.

PRECAUCION: NUESTROS AMPLIFICADORES PUEDEN PRODUCIR NIVELES DE PRESION DE SONIDO ALTO. EXPOSICION CONTINUADA A LOS NIVELES DE PRESION DE SONIDO ALTO PUEDE CAUSA DANO PERMANENTE A SU OIDO. ES ACONSEJADO QUE USE PRECAUCION AL USUARIO Y ES RECOMENDADO PROTECCION PARA LOS OIDOS SI LA UNIDAD ES OPERADA A VOLUMEN ALTO.

CET ÉQUIPEMENT AVAIT ÉTÉ INVENTÉ ET ARRANGÉ POUR POURVOIR DES ANNÉES D'USAGE SAUF ET SÛR. POUR PROLONGER LA VIE DE CET APPAREIL ET POUR EMPÊCHER LES DOMMAGES ET LES TORTS ACCIDENTELS, SUIVEZ LES INSTRUCTIONS DE PRÉCAUTION.

AVERTISSEMENT: POUR RÉDUIRE LES RISQUES D'ÉLECTROCUTION: (1) N'OUVREZ PAS LE CHÂSSIS, (2) NE PAS ESSAYER DE SUPPRIMER LA BROCHE CORRESPONDANT À LA TERRE.

ATTENTION: POUR RÉDUIRE LES RISQUES D'UN FEU OU D'ÉLECTROCUTION, N'EXPOSEZ PAS L'APPAREIL À LA PLUIE OU À LA MOITEUR.

ATTENTION: IL N'Y A PAS D'ÉLÉMENTS RÉPARABLES DANS L'APPAREIL. CONSULTER UN TECHNICIEN QUALIFIÉ POUR LES RÉPARATIONS.

ATTENTION: NOS AMPLIFICATEURS SONT CAPABLES DE LA PRODUCTION DES NIVEAUX DE SON D'UNE HAUTE PRESSION. L'EXPOSITION CONTINUE AUX CES NIVEAUX PEUT CAUSER LA SURDITÉ PERMANENTE. LA PRUDENCE EST ADVISÉ À UTILISATEUR ET LA PROTECTION DES OREILLES EST RECOMMANDÉ SI L'APPAREIL EST UTILISÉ À UN HAUT NIVEAU DE VOLUME.

EXPLANATION OF GRAPHICAL SYMBOLS:
EXPLICACION DE SIMBOLOS GRAFICOS:
EXPLICATION DES SYMBÔLES GRAPHIQUES:

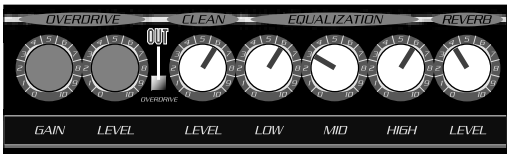
= "DANGEROUS VOLTAGE"
"VOLTAJE PELIGROSO"
"DANGER HAUTE TENSION"
"GEFAHLICHE SPANNUNG"

= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"
"ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."
"REFERREZ-VOUS AU MANUAL D'UTILISATION"
"UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"

GX-15/15R Amplifier

SUGGESTED STARTING SETTINGS:

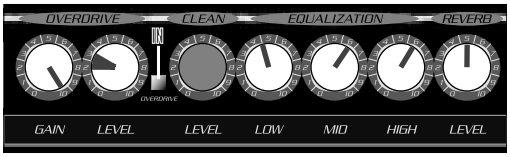
CLEAN:



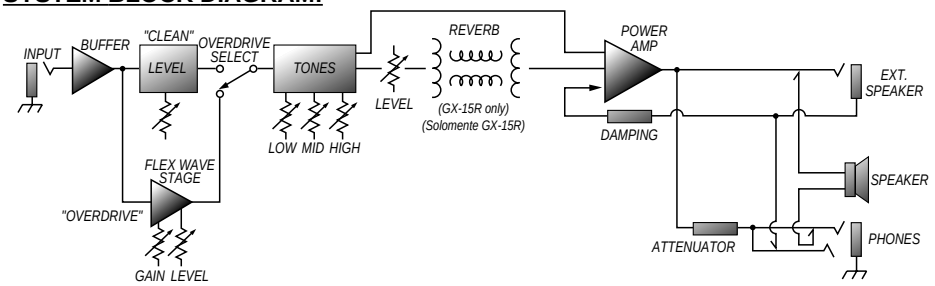
BLUES:

RHYTHM:

LEAD:



SYSTEM BLOCK DIAGRAM:



Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this Crate manual are subject to change without notice.

Crate continuamente desarrolla nuevos productos, así como también mejora los existentes. Por esta razón, las especificaciones é información incluidos en este manual están sujetos a cambios sin previo aviso.

Crate développe continuellement des nouvels produits, ainsi d'améliorer ceux qui existe. Pour cette raison les spécifications et les informations dans ce manuel peuvent se changer sans préavis.

www. crateamps.com

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